

## Jerome Weston

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- CONTACT INFORMATION University of Dubrovnik +1 (337) 794-1366  
Department of Electrical and Computer Engineering jweston@unidu.hr  
Dubrovnik, Croatia
- RESEARCH INTERESTS Systems and Controls with Engineering Applications
- EDUCATION **Louisiana State University**  
Ph.D Mathematics (August 2018). Advisor: Dr. Michael Malisoff, Roy Paul Daniels Professor  
B.S. in Mathematics, May 2013. Cum laude graduate, with minor in computer science
- RESEARCH EXPERIENCE
- Sept 2018 - Postdoctoral Researcher  
Advisor: Dr. Martin Lazar, Department of Electrical and Computer Engineering  
University of Dubrovnik
  - May 2017 - Body Shape Analysis  
July 2018 Advisor: Dr. Peter Wolenski, Department of Mathematics  
Louisiana State University, LSU Math Consultation Clinic
  - May-June 2016 Infant Suck Detection Interface  
Advisor: Dr. Peter Wolenski, Department of Mathematics  
Louisiana State University, LSU Math Consultation Clinic
  - 2015 - 2018 NSF Research Assistant  
Advisor: Dr. Michael Malisoff, Department of Mathematics
  - 2012 - 2013 Scattering Off of an Unusual Boundary - Undergraduate Thesis  
Advisor: Dr. Stephen Shipman, Department of Mathematics  
Louisiana State University
  - June 2012 Sampling Theory  
Advisor: Dr. Mark Davidson, Department of Mathematics  
Louisiana State University, NSF VIGRE Summer Program
  - June 2011 Phase Plane Diagrams of Differential Equations  
Advisor: Dr. Mark Davidson, Department of Mathematics  
Louisiana State University, NSF VIGRE Summer Program
- PUBLICATIONS
- F. Mazenc, M. Malisoff, and J. Weston, *New Bounded Backstepping Control Designs for Time-Varying Systems under Converging Input Converging State Conditions*. Proceedings of the IEEE Conference on Decision and Control, Las Vegas, NV, 2016, pp. 3167-3171, DOI: 10.1109/CDC.2016.7798744.
- J. Weston, M. Malisoff, and F. Mazenc, *Sequential Predictors under Time-Varying Delays: Effects of Delayed State Observations in Dynamic Controller*. Proceedings of the IEEE Conference on Decision and Control, Melbourne, Australia, 2017, pp. 4351-4356. DOI: 10.1109/CDC.2017.8264301.
- F. Mazenc, M. Malisoff, L. Burlion, and J. Weston, *Bounded Backstepping Control and Robustness Analysis for Time-Varying Systems under Converging Input Converging State Conditions*. European Journal of Control, accepted in February 2018, in press. DOI: 10.1016/j.ejcon.2018.02.005.

J. Weston and M. Malisoff, *Sequential Predictors under Time-Varying Feedback and Measurement Delays and Sampling*. IEEE Transactions on Automatic Control, accepted in September 2018, in press.

Sobhiyeh et al., *Universal Software for Automated Anthropometry Measurements: Evaluation with Two Different Systems*. Proceedings of the 11th International Symposium on In Vivo Body Composition Studies, New York, NY, 2018, in press.

J. Weston, *Backstepping and Sequential Predictors for Control Systems*, Ph.D. Dissertation.

CONFERENCE TALKS      *New Bounded Backstepping Control Designs for Time-Varying Systems under Converging Input Converging State Conditions*, Midwest Optimization Meeting, Michigan State University (October 2016) and IEEE Conference of Decision and Control, Las Vegas, NV (December 2016).

*Sequential Predictors under Time-Varying Feedback and Measurement Delays and Sampling*, 42nd SIAM Southeastern Atlantic Sectional Conference (March 2018) and 9th Conference on Applied Mathematics and Scientific Computing, Sibenik, Croatia (September 2018).

EXTENDED PROFESSIONAL TRAVEL      July 2016      American Control Conference 2016, Boston, Massachusetts  
MSRI Summer School on Electronic Structure Theory, Berkeley, California

OTHER TALKS      *Cops & Robbers: A differential game*, MathCircle, Louisiana State University. (June 2015)  
*Intro to Calculus of Variations*, Liquid Crystals Seminar (Informal), Louisiana State University. (April 2017)

TEACHING EXPERIENCE      October, 2014      Lecturer, LSU ACT Test Prep  
Jan-Dec, 2017      Math Tutor, Gardere Initiative  
August-December, 2017      MATH 1550 Teaching Assistant, LSU

HONORS AND AWARDS      2013-2015      Louis Stokes Alliance for Minority Participation & Bridge to the Doctorate Fellowship

GRADUATE COURSEWORK       Real Analysis (MATH 7311)       Stochastic Analysis (MATH 7366)  
 Complex Analysis (MATH 7350)       Functional Analysis (MATH 7330)  
 Ordinary Differential Equations (MATH 7320)       Calculus of Variations (MATH 7390)  
 Partial Differential Equations (MATH 7386)       Topics in Material Science (MATH 7384)  
 Probability (MATH 7360)       Numerical Linear Algebra (MATH 7710)  
       Finite Element Method (MATH 7325)  
       Topics in Numerical Analysis (MATH 7390)

RELEVANT SKILLS      Computer Languages:      C++, Python  
Software:      MATLAB, Mathematica, LaTeX

SERVICE      Organizer of Minisymposium “New Control Methods for Dynamic Systems” at 42nd SIAM Southeastern Atlantic Sectional Conference (March 2018)

REFERENCES

**Mark Davidson**, Professor, Louisiana State University,  
1-225-578-1581, davidson@lsu.edu

**Michael Malisoff**, Roy Paul Daniels Professor, Louisiana State University,  
1-225-578-6714, malisoff@lsu.edu

**Stephen Shipman**, Professor, Louisiana State University,  
1-225-578-1674, shipman@math.lsu.edu

**Terrie White**, Senior Instructor, Louisiana State University,  
1-225-578-1898, twhite3@lsu.edu

**Peter Wolenski**, Russell B. Long Professor, Louisiana State University,  
1-225-578-1606, wolenski@math.lsu.edu